

Version: 3.1 / EN

Page 1 of 13

Print date:

Revision date: 13.05.2016

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## **SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

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### **1.1 Product identifier :**

Substance name: ACK RBC Lysis Buffer, 1X, UltraPure, Sterile

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Recommended restrictions on use : For professional users only.

### **1.3 Details of the supplier of the safety data sheet**

Manufacturer / Supplier: ROJETechnologies

Street address / P.O. Box: ROJE Street, 69<sup>th</sup> alley, Foroudgah blvd, Sanaat square, 8917357485,  
Yazd, Iran

Country ID / Postcode / Place: Iran

Telephone number: +98 35 3723 7122

Telefax: +98 35 3723 7122

E-Mail: [safety@rojetechnologies.co](mailto:safety@rojetechnologies.co)

National contact: ROJETechnologies

### **1.4 Emergency Telephone Number**

Opening Hours: 8-15:00 Sa to Wed and 8-13:00 Thurs

Language of the Phone Service: English/ Persian

Only Available During Office Hours.

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## **SECTION 2: Hazards Identification**

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### **2.1 Classification of the substance or mixture**

#### **2.1.1 classification according to regulation (EC) No 1272/2008 (CLP)**

Not a hazardous substance or mixture.

#### **2.1.2 Additional information:**

Not a hazardous substance or mixture.

Version: 3.1 / EN

Page 2 of 13

Print date:

Revision date: 13.05.2016

## 2.1.3 Potential Health Effects

Aggravated Medical Condition:

None known.

Symptoms of Overexposure:

No information available.

## 2.2 Label elements

Not a hazardous substance or mixture.

### 2.1.2 Carcinogenicity:

**IARC**

**No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**

**ACGIH**

**No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.**

**OSHA**

**No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.**

**NTP**

**No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**

## 2.3 Other hazards

No information available.

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## SECTION 3: *Composition/Information on Ingredients*

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### 3.1 Substances

Hazardous ingredients

No hazardous ingredients

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## SECTION 4: *First Aid Measures*

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### 4.1 Description of first aid measures

- General notes: Show this material safety data sheet to the doctor in attendance.

- following inhalation: Move to fresh air. If symptoms persist, call a physician.

Version: 3.1 / EN

Page 3 of 13

Print date:

Revision date: 13.05.2016

- following skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
If symptoms persist, call a physician.
- following eye contact: Remove contact lenses.  
Protect unharmed eye.  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- following ingestion: If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
- self-protection of the first aider: No information available.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Effects: No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes for doctor: No information available.

Special treatment: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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### SECTION 5: *Fire-Fighting Measures*

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#### 5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing: No information available.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Exposure to decomposition products may be a hazard to health.

## 5.3 Advice for fire-fighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

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## SECTION 6: *Accidental Release Measures*

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### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

### 6.2 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal

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## SECTION 7: *Handling and Storage*

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### 7.1 Precautions for safe handling

Advice on safe handling: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

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## SECTION 8: *Exposure Controls/Personal Protection*

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### 8.1 Control parameters

### 8.2 Exposure controls

#### 8.2.1 Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2.2 Personal protection equipment:

**8.2.2.1 Eye and face protection:** Safety glasses

**8.2.2.2 Skin protection:** Choose body protection according to the amount and concentration of the dangerous substance at

Version: 3.1 / EN

Page 5 of 13

Print date:

Revision date: 13.05.2016

**Hand protection:**

the work place. Footwear protecting against chemicals.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

**Eye protection:**

Safety glasses

**Hygiene measures:**

Keep away from food and drink.

When using do not eat, drink or smoke.

**Other skin protection:**

No information available.

**8.2.2.3 Respiratory protection:**

No information available.

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**SECTION 9: Physical and Chemical Properties**

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**9.1 Information on basic physical and chemical properties:**

a) Appearance:	liquid
b) Odour:	characteristic
c) Odour threshold:	No data available
d) pH	7.5
e) Melting point / freezing point:	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	Not applicable
h) Evaporation rate	No data available
j) Upper / lower flammability or explosive limits	No data available

Version: 3.1 / EN

Page 6 of 13

Print date:

Revision date: 13.05.2016

k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Solubility(ies)	
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	not determined
q) Decomposition temperature	No data available
r) Viscosity	
s) Explosive properties	No data available
t) oxidizing properties	No data available

## 9.2 Other information

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## SECTION 10: Stability and Reactivity

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<b>10.1 Reactivity:</b>	No decomposition if stored and applied as directed.
<b>10.2 Chemical stability:</b>	No decomposition if stored and applied as directed.
<b>10.3 Possibility of hazardous reactions:</b>	Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
<b>10.4 Conditions to avoid:</b>	No data available
<b>10.5 Incompatible materials:</b>	No data available
<b>10.6 Hazardous decomposition products:</b>	No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological Information

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### 11.1 Information on toxicological effects

#### 11.1.1 Acute toxicity:

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

#### 11.1.2 Skin corrosion/irritation:

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	May cause skin irritation in susceptible persons.

#### 11.1.3 Serious eye damage/irritation:

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	May irritate eyes.

Version: 3.1 / EN

Page 8 of 13

Print date:

Revision date: 13.05.2016

**11.1.4 Respiratory or skin sensitization:**

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

**11.1.5 Germ cell mutagenicity:**

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

**11.1.6 Carcinogenicity:**

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

**11.1.7 Reproductive toxicity:**

Method:	No data available
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Version: 3.1 / EN

Page 9 of 13

Print date:

Revision date: 13.05.2016

Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

#### 11.1.8 Summary of evaluation of the CMR properties:

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

#### 11.1.9 STOT-single exposure:

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

#### 11.1.10 STOT-repeated exposure:

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

Version: 3.1 / EN

Page 10 of 13

Print date:

Revision date: 13.05.2016

**11.1.10 Aspiration hazard:**

Method:	No data available
Species:	No data available
Routes of exposure:	No data available
Effective doses:	No data available
Exposure time:	No data available
Results:	No data available

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**SECTION 12: Ecological Information**

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**12.1 Ecotoxicity**

**Product:**

**Toxicity to fish :** No data available

**Toxicity to algae :** No data available

**Toxicity to bacteria :** No data available

**12.2 Persistence and degradability** No data available

**12.3 Bio accumulative potential**

**Product:**

**Bioaccumulation:** No data available

**Partition coefficient: noctanol/water:** No data available

**12.4 Mobility in soil** No data available

**12.5 Results of PBT and vPvB assessment** No data available

**12.6 Other adverse effects** No data available

Version: 3.1 / EN

Page 11 of 13

Print date:

Revision date: 13.05.2016

## 12.7 Additional information

No data available

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## SECTION 13: Disposal Considerations

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### 13.1 Waste treatment methods

#### 13.1.1 Disposal methods

Waste from residues:

Dispose of contents/container in accordance with local regulation.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: Transport Information

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### 14.1. UNRTDG

Not regulated as a dangerous good

### 14.2. IATA-DGR

Not regulated as a dangerous good

### 14.3. IMDG-Code

Not regulated as a dangerous good

### 14.4. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### 14.5. Domestic regulation

49 CFR

Not regulated as a dangerous good

### 14.6. Special precautions for user:

Version: 3.1 / EN

Page 12 of 13

Print date:

Revision date: 13.05.2016

**Remarks:**

**Not classified as dangerous in the  
meaning of transport regulations.**

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**SECTION 15: Regulatory Information**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU regulations

Authorizations and/or restrictions on use:

OSHA Hazards:

No OSHA Hazards

EPCRA - Emergency Planning and Community Right-to-Know

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards:

No SARA Hazards

SARA 302 :

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 :

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Version: 3.1 / EN

Page 13 of 13

Print date:

Revision date: 13.05.2016

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

## 15.2 Chemical safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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### SECTION 16: Other Information

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(i) Indication of changes: No information available

(ii) Abbreviations and acronyms: No information available

(iii) Key literature references and sources for data: No information available

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: No information available

(v) Relevant H-statements (number and full text): No information available

(vi) Training advice: No information available

(vii) Further information:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.